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Date of Deposit: September 29, 2004



PATENT  
CASE NO. 10544/169

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application: )  
 )  
Vladimir V. Protopopov )  
 ) Group Art Unit: 2882  
Serial No.: 10/035,025 )  
 ) Examiner: Keaney, Elizabeth Marie  
Filed: December 28, 2001 )  
 )  
For: DARK-FIELD PHASE )  
CONTRAST IMAGING )

**TERMINAL DISCLAIMER**

Mail Stop AF  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

Your petitioner, Osmic, Inc., a corporation organized and existing under the laws of the State of Delaware, having a place of business in at 1900 Taylor Road, Auburn Hills, MI 48326 represents that it is the present assignee of United States Patent Application Serial No. 10/035,025, filed December 28, 2001, for DARK-FIELD PHASE CONTRAST IMAGING. United States

10/01/2004 WARDELRI 00000080 10035025

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110.00 DP

Patent Application Serial No. 10/035,025 claims the benefit of priority of the filing dates of December 28, 2000 and February 28, 2001 under 35 U.S.C. § 119(e) of United States Provisional Patent Applications Serial Nos. 60/258,851 and 60/272,354, respectively. Your petitioner also represents that it is the present assignee of United States Patent Application Serial No. 09/797,498, filed March 1, 2001, for X-RAY PHASE CONTRAST IMAGING USING A FABRY-PEROT INTERFEROMETER CONCEPT.

The assignment of United States Provisional Patent Applications Serial Nos. 60/258,851 and 60/272,354 and United States Patent Application Serial No. 10/035,025 from the inventor to your petitioner occurred on March 19, 2002. The assignment was filed on April 2, 2002 to be recorded at the United States Patent and Trademark Office. The assignment to your petitioner was recorded on April 15, 2002 at the United States Patent and Trademark Office and is located at reel 012794, frames 572-574. The assignment recorded on April 15, 2002 assigns all rights in the invention disclosed in United States Provisional Patent Applications Serial Nos. 60/258,851 and 60/272,354 and United States Patent Application Serial No. 10/035,025. A copy of the above-mentioned assignment is provided herewith.

U.S. Patent Application Serial No. 09/797,498 was filed on March 1, 2001, and was entitled X-RAY PHASE CONTRAST IMAGING USING A FABRY-PEROT INTERFEROMETER CONCEPT. The assignment of United States Patent Application Serial No. 09/797,498 from the inventors to your petitioner occurred on June 1, 2001. The assignment was filed on June 11, 2001

to be recorded at the United States Patent and Trademark Office. The assignment to your petitioner was recorded on June 15, 2001 at the United States Patent and Trademark Office and is located at reel 11901, frames 837-843. The assignment recorded on June 15, 2001 assigns all rights in the invention disclosed in United States Patent Application Serial No. 09/797,498. A copy of the above-mentioned assignment is provided herewith.

Your petitioner hereby declares that no other assignments of United States Provisional Patent Applications Serial Nos. 60/258,851 and 60/272,354 and United States Patent Applications Serial Nos. 10/035,025 and 09/797,498 have occurred from June 1, 2001 to the filing of this terminal disclaimer. Accordingly, your petitioner hereby declares that it is the assignee of U.S. Patent Applications Serial Nos. 10/035,025 and 09/797,498.

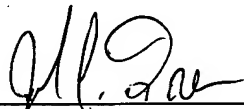
Your petitioner hereby disclaims the terminal part of any patent granted on U.S. Patent Application Serial No. 10/035,025, which would extend beyond the expiration date of a patent which should issue from commonly assigned United States Patent Application Serial No. 09/797,498, and hereby agrees that any patent so granted on U.S. Patent Application Serial No. 10/035,025 shall be enforceable only for and during such period that the legal title to said patent shall be the same as the legal title to a patent granted on U.S. Patent Application Serial No. 09/797,498, this agreement to run with any patent granted on U.S. Patent Application Serial No. 10/035,025 and to be binding upon the grantee, his successors or assigns.

Your petitioner hereby declares that evidentiary documents, including the enclosed assignment, have been reviewed in certifying that, to the best of the assignee's knowledge and

belief, title is in the assignee seeking to take action.

Your petitioner further declares that all statements made herein of its own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Respectfully submitted,



---

John C. Freeman  
Attorney for Assignee - Osmic, Inc.

Date: September 29, 2009



UNITED STATES  
PATENT AND  
TRADEMARK OFFICE

JUNE 13, 2002

PTAS

Chief Information Officer  
Washington, DC 20231  
www.uspto.gov

BRINKS HOFER GILSON & LIONE  
JOHN C. FREEMAN  
P.O. BOX 10395  
CHICAGO, IL 60610



\*102061393A\*

UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 04/15/2002

REEL/FRAME: 012794/0572  
NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

PROTOPOPOV, VLADIMIR V.

DOC DATE: 03/19/2002

ASSIGNEE:

OSMIC, INC.  
1900 TAYLOR ROAD  
AUBURN HILLS, MICHIGAN 48326

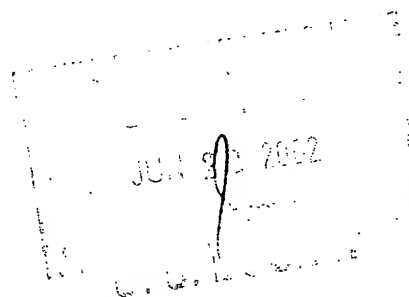
SERIAL NUMBER: 10035025

FILING DATE: 12/28/2001

PATENT NUMBER:

ISSUE DATE:

KIMBERLY WHITE, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS



PATENTS ONLY

TO THE COM

-19-2002

PATENTS ONLY

AND TRADEMARKS

Please fill

102061393

... or copy thereof.

1. Name of Party(ies) conveying an interest

Vladimir V. Protopopov

Additional name(s) of conveying party(ies) attached?

☐ Yes ☒ No

2. Name and Address of Party(ies) receiving an interest:

Name: Osmic, Inc.

Internal Address:

Street Address: 1900 Taylor Road

City: Auburn Hills

State/Zip: Michigan 48326

Additional name(s) and addresses attached?

☐ Yes ☒ No

3. Description of the interest conveyed:

☒ Assignment ☐ Change of Name Other:☐ Security Agreement☐ Merger

Execution Date: March 19, 2002

4. Application number(s) or patent number(s). Additional sheet attached? ☐ Yes ☒ No

If this document is being filed together with a new application, the execution date of the application is:

Date

A. Patent Application No.(s)

10/035,025

60/272,354

60/258,851

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

BRINKS HOFER GILSON &amp; LIONE

P.O. BOX 10395

CHICAGO, IL 60610

(312)321-4200

6. Number of applications and patents involved: 1

7. Total fee (37 CFR 3.41)

\$120.00

☒ Enclosed☐ Authorized to be charged to Deposit Account No. 23-19258. ☒ Please charge any deficiencies in fee or credit any overpayment to Deposit Account No. 23-1925.

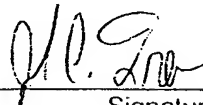
DO NOT USE THIS SPACE

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

John C. Freeman

Name of Person Signing



Signature

April 2, 2002

Date

Total number of pages including cover sheet, attachments, and document: 3

18/2002 DBYRNE 00000167 10035025

FC-581

120.00 DP

**ASSIGNMENT**

WHEREAS, Vladimir V. Protopopov, hereinafter called the "Assignor", has made the invention described in United States Provisional Patent Application Serial No. 60/258,851, filed on December 28, 2000, and entitled On the Possibility of X-Ray Refractive Radiography Using Multilayer Mirrors With Resonant Absorption, and in United States Provisional Patent Application Serial No. 60/272,354, filed on February 28, 2001, and entitled DARK-FIELD PHASE CONTRAST IMAGING, and in United States Patent Application Serial No. 10/035,025 filed on December 28, 2001, and entitled DARK-FIELD PHASE CONTRAST IMAGING;

WHEREAS, Osmic, Inc., a corporation organized and existing under the laws of Delaware, having a place of business at 1900 Taylor Road, Auburn Hills, MI 48326, hereinafter called the "Assignee", desires to acquire the entire right, title and interest in and to the invention and the patent application identified above, and all patents which may be obtained for said invention, as set forth below;

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00), and other valuable and legally sufficient consideration, the receipt of which by the Assignor from the Assignee is hereby acknowledged, the Assignor has sold, assigned and transferred, and by these presents does sell, assign and transfer to the Assignee, the entire right, title and interest for the United States in and to the invention and the patent application identified above, and any patents that may issue for said invention in the United States; together with the entire right, title and interest in and to said invention and all patent applications and patents therefor in all countries foreign to the United States, including the full right to claim for any such application all benefits and priority rights under any applicable convention; together with the entire right, title and interest in and to all continuations, divisions, renewals and extensions of any of the patent applications and patents defined above; to have and to hold for the sole and exclusive use and benefit of the Assignee, its successors and assigns, to the full end of the term or terms for all such patents.

The Assignor hereby covenants and agrees, for both the Assignor and the Assignor's legal representatives, that the Assignor will assist the Assignee in the prosecution of the patent application identified above; in the making and prosecution of any other patent

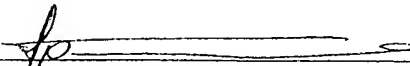
applications that the Assignee may elect to make covering the invention identified above; in vesting in the Assignee like exclusive title in and to all such other patent applications and patents; and in the prosecution of any interference which may arise involving said invention, or any such patent application or patent; and that the Assignor will execute and deliver to the Assignee any and all additional papers which may be requested by the Assignee to carry out the terms of this Assignment.

The Commissioner of Patents and Trademarks is hereby authorized and requested to issue patents to the Assignee in accordance with the terms of this Assignment.

In testimony whereof, the Assignor has executed this agreement.

DATED:

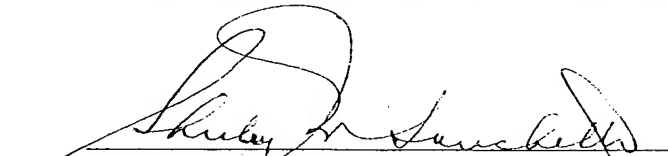
19 March 2002

  
Vladimir V. Protopopov

STATE OF Michigan     )  
                                  ) ss.  
COUNTY OF Macomb     )  
Acting Oakland

I, \_\_\_\_\_, a Notary Public in and for the County and State aforesaid, do hereby certify that Vladimir V. Protopopov, personally known to me to be the same person whose name is subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that (s)he signed, sealed and delivered the said instrument as his/her free and voluntary act for the uses and purposes therein set forth.

IN WITNESS WHEREOF, I have hereunto set my hand and Notarial Seal, this 19th day of March, 2002 .

  
Notary Public Shirley M. Touchette

(SEAL)

My Commission Expires: 5/17/03





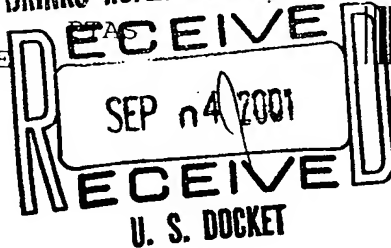
**UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office**

ASSISTANT SECRETARY AND COMMISSIONER  
OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231

AUGUST 28, 2001

BRINKS HOFER GILSON & LIONE  
JOHN C. FREEMAN  
P.O. BOX 10395  
CHICAGO, IL 60610

BRINKS HOFER GILSON & LIONE



\*101755408A\*

**UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT**

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RECORDATION DATE: 06/15/2001

REEL/FRAME: 011901/0837  
NUMBER OF PAGES: 7

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

**ASSIGNOR:**

MARTYNOV, VLADIMIR

DOC DATE: 06/01/2001

**ASSIGNOR:**

PLATONOV, YURIY

DOC DATE: 06/01/2001

**ASSIGNEE:**

OSMIC, INC.  
1788 NORTHWOOD DRIVE  
TROY, MICHIGAN 48084-5532

SERIAL NUMBER: 09797498

FILING DATE: 03/01/2001

PATENT NUMBER:

ISSUE DATE:

SAUNDRA BALLENGER, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

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JUN 15 2001

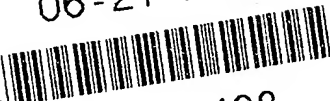
TO THE COMMISS

06-21-2001

PATENTS ONLY

TRADEMARKS

Please record this



101755408

... thereof.

Name of Party(ies) conveying an interest:

Vladimir V. Martynov  
Yuriy Platonov

Name and Address of Party(ies) receiving an interest:

Name: Osmic, Inc.  
Internal Address:  
Street Address: 1788 Northwood Drive  
City: Troy  
State/Zip: Michigan 48084-5532

Additional name(s) of conveying party(ies) attached?

☐ Yes ☒ No

Additional name(s) and addresses attached?

☐ Yes ☒ No

3. Description of the interest conveyed:

☒ Assignment

☐ Change of Name

Other:

☐ Security Agreement

☐ Merger

Execution Date: June 1, 2001

4. Application number(s) or patent number(s). Additional sheet attached? ☐ Yes ☒ No

If this document is being filed together with a new application, the execution date of the application is:

Date

A. Patent Application No.(s)  
09/797,498

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

BRINKS HOFER GILSON & LIONE  
P.O. BOX 10395  
CHICAGO, IL 60610  
(312)321-4200

6. Number of applications and patents involved: 1

7. Total fee (37 CFR 3.41)

\$ 40.00

☒ Enclosed

☐ Authorized to be charged to Deposit Account No. 23-1925

8. ☒ Please charge any deficiencies in fee or credit any overpayment to Deposit Account No. 23-1925.

DO NOT USE THIS SPACE

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

John C. Freeman

Name of Person Signing

Signature

June 11, 2001

Date

Total number of pages including cover sheet, attachments, and document: 4

ASSIGNMENT

WHEREAS, Vladimir V. Martynov and Yuriy Platonov hereinafter called the "Assignors", have made the invention described in the United States Patent Application Serial No. 09/797,498, filed on March 1, 2001, and entitled X-RAY PHASE CONTRAST IMAGING USING A FABRY-PEROT INTERFEROMETER CONCEPT;

WHEREAS, Osmic, Inc., a corporation organized and existing under the laws of Delaware, having a place of business at 1788 Northwood Drive, Troy, MI 48084-5532, hereinafter called the "Assignee", desires to acquire the entire right, title and interest in and to the invention and the patent application identified above, and all patents which may be obtained for said invention, as set forth below;

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00), and other valuable and legally sufficient consideration, the receipt of which by the Assignors from the Assignee is hereby acknowledged, the Assignors have sold, assigned and transferred, and by these presents do sell, assign and transfer to the Assignee, the entire right, title and interest for the United States in and to the invention and the patent application identified above, and any patents that may issue for said invention in the United States; together with the entire right, title and interest in and to said invention and all patent applications and patents therefor in all countries foreign to the United States, including the full right to claim for any such application all benefits and priority rights under any applicable convention; together with the entire right, title and interest in and to all continuations, divisions, renewals and extensions of any of the patent applications and patents defined above; to have and to hold for the sole and exclusive use and benefit of the Assignee, its successors and assigns, to the full end of the term or terms for all such patents.

The Assignors hereby covenant and agree, for both the Assignors and the Assignors' legal representatives, that the Assignors will assist the Assignee in the prosecution of the patent application identified above; in the making and prosecution of any other patent applications that the Assignee may elect to make covering the invention identified above; in vesting in the Assignee like exclusive title in and to all such other patent applications and patents; and in the prosecution of any interference which may arise involving said invention, or

any such patent application or patent; and that the Assignors will execute and deliver to the Assignee any and all additional papers which may be requested by the Assignee to carry out the terms of this Assignment.

The Commissioner of Patents and Trademarks is hereby authorized and requested to issue patents to the Assignee in accordance with the terms of this Assignment.

IN TESTIMONY WHEREOF, the Assignors have executed this agreement.

DATE:

6.01.2001



Vladimir V. Martynov

STATE OF MICHIGAN )

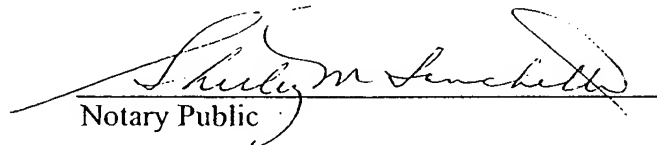
) ss.

COUNTY OF MACOMB )

ACTING IN OAKLAND COUNTY

I, Shirley M Touchette, A Notary Public in and for the County and State aforesaid, do hereby certify that Vladimir V. Martynov, personally known to me to be the same person whose name is subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that (s)he signed, sealed and delivered the said instrument as his/her free and voluntary act for the uses and purposes therein set forth.

IN WITNESS WHEREOF, I have hereunto set my hand and Notarial Seal, this  
1 day of June, 2001.

  
Notary Public

(SEAL)

My Commission Expires: 5-17-03

DATE:

06/01/01

  
Yuriy Platonov

STATE OF MICHIGAN )

) ss.

COUNTY OF MACOMB )

ACTING IN OAKLAND COUNTY

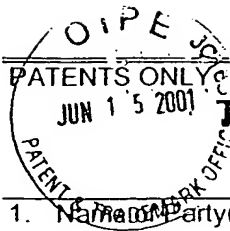
I, Shirley M. Touchette, A Notary Public in and for the County and State aforesaid, do hereby certify that Yuriy Platonov, personally known to me to be the same person whose name is subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that (s)he signed, sealed and delivered the said instrument as his/her free and voluntary act for the uses and purposes therein set forth.

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1 day of June, 2001.

  
Notary Public

(SEAL)

My Commission Expires: 5-17-03



PATENTS ONLY

## TO THE COMMISSIONER OF PATENTS AND TRADEMARKS

Please record the attached original document or copy thereof.

1. Name of Party(ies) conveying an interest:

Vladimir V. Martynov  
Yuriy Platonov

Additional name(s) of conveying party(ies) attached?

☐ Yes ☒ No

2. Name and Address of Party(ies) receiving an interest:

Name: Osmic, Inc.  
Internal Address:  
Street Address: 1788 Northwood Drive  
City: Troy  
State/Zip: Michigan 48084-5532

Additional name(s) and addresses attached?

☐ Yes ☒ No

3. Description of the interest conveyed:

☒ Assignment☐ Change of Name

Other:

☐ Security Agreement☐ Merger

Execution Date: June 1, 2001

4. Application number(s) or patent number(s). Additional sheet attached? ☐ Yes ☒ No

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Date

A. Patent Application No.(s)

09/797,498

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

BRINKS HOFER GILSON & LIONE  
P.O. BOX 10395  
CHICAGO, IL 60610  
(312)321-4200

6. Number of applications and patents involved: 1

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\$ 40.00

☒ Enclosed☐ Authorized to be charged to Deposit Account No. 23-19258. ☒ Please charge any deficiencies in fee or credit any overpayment to Deposit Account No. 23-1925.

DO NOT USE THIS SPACE

9. Statement and signature.

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John C. Freeman

Name of Person Signing

  
Signature

June 11, 2001

Date

Total number of pages including cover sheet, attachments, and document: 4

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DATE:

6.01.2001



Vladimir V. Martynov

STATE OF MICHIGAN )

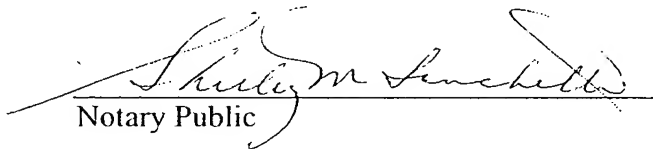
) ss.

COUNTY OF MACOMB )

ACTING IN OAKLAND COUNTY

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1 day of June, 2001.



Shirley M Touchette  
Notary Public

(SEAL)

My Commission Expires: 5-17-03



DATE:

06/01/01

  
Yuriy Platonov

STATE OF MICHIGAN )

) ss.

COUNTY OF MACOMB )

ACTING IN OAKLAND COUNTY

I, Shirley M. Touchette, A Notary Public in and for the County and State aforesaid, do hereby certify that Yuriy Platonov, personally known to me to be the same person whose name is subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that (s)he signed, sealed and delivered the said instrument as his/her free and voluntary act for the uses and purposes therein set forth.

IN WITNESS WHEREOF, I have hereunto set my hand and Notarial Seal, this  
1 day of June, 2001.

  
Notary Public

(SEAL)

My Commission Expires: 5-17-03